

200200135

THE UNITED SIMILES OF MYIERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Spagenta Seeds, Inc.

THETE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN DEDUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY VECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (I) SHALL BE SOLD BY VARIETY NAME ONLY AS A RECRITIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF SE (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT. COMMON

'Coker 9184'

In Jestimonn Mercest, I have hereunto set my hand and caused the seal of the Hunt Anxiety Arcticism Office to be affixed at the City of Washington, D.C. this tenth day of June, in the year two thousand two.

Oca m. Juhn

Commissioner Plant Variety Protection Office Agricultural Marketing Service atary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

(instructions and information collection burden statement	on reverse)	}		
1. NAME OF OWNER Syngenta Seeds, Inc.			2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME BL940812	3. VARIETY NAME COKER 9184
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Cour.	ntry)		5. TELEPHONE (include area code)	EOR OFFICIAL USE ONLY
P.O. Box 959			763–593–7333	PVPO NUMBER
Minneapolis, MN 55440 ATTN: John Thorne			6. FAX (include area code)	20020013
			763-542-0194	FILING DATE
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation	8. IF INCORPOR STATE OF INC		9. DATE OF INCORPORATION	April 8, 2002
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THI	-L			FILING AND EXAMINATION
John Thorne Syngenta Seeds, Inc. P.O. Box 949 Washington, IA 52353-0949				FEES: \$ 2705.00 R DATE 4/8/2002 CERTIFICATION FEE: \$ 320
11. TELEPHONE (Include area code) 319-653-2181 12. FAX (Include area code) 319-653-4609	13. E-A			PKIND (Common Name) mmon Wheat
15. GENUS AND SPECIES NAME OF CROP Triticum aestivum	1 _	MILY NAME (Botanica Oaceae	0) 17. IS THE HYBR	HE VARIETY A FIRST GENERATION NID?
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow reverse) 2. Exhibit A. Origin and Breeding History of the Variety 3. Exhibit B. Statement of Distinctness 4. Exhibit C. Objective Description of Variety 5. Exhibit D. Additional Description of the Variety (Optional) 6. Exhibit E. Statement of the Basis of the Owner's Ownership 7. Voucher Sample (2,500 viable untreated seeds or, for tuber propagate verification that tissue culture will be deposited and maintained in an a repository) 9. W. Filling and Examination Fee (\$2,705), made payable to "Treasurer of the States" (Mail to the Plant Variety Protection Office)	ed varieties, pproved public	20. DOES THE ON VARIETY BE LET IF YES, WHICH VARIETY BE LET IF YES, SPECION NUMBER 1,2,3	NNER SPECIFY THAT SEED OF THIS IMITED AS TO NUMBER OF CLASSES? H CLASSES? XX FOUNDATION VNER SPECIFY THAT SEED OF THIS IMITED AS TO NUMBER OF GENERATIO FY THE FOUNDATION THE FOUNDATION THE THE THE THE THE THE THE TH	NO (If no', go to item 22) YES NO REGISTERED XX REGISTERED NO REGISTERED X CERTIFIED
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USE OTHER COUNTRIES? [XX YES Fall 2001, U.S.A.] NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TR. FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicates)		23. IS THE VARIE PROPERTY RI	TY OR ANY COMPONENT OF THE VARIE GHT (PLANT BREEDER'S RIGHT OR PAT	TY PROTECTED BY INTELLECTUAL ENT??
24. The owners declare that a viable sample of basic seed of the variety will be furnis for a tuber propagated variety a tissue culture will be deposited in a public reposition the undersigned owner(s) is(are) the owner of this sexually reproduced or tuber and is entitled to protection under the provisions of Section 42 of the Plant Variety Owner(s) is(are) informed that false representation herein can jeopardize protection.	shed with application a itory and maintained f propagated plant varie Protection Act.	and will be replenished or the duration of the c ety, and believe(s) that	upon request in accordance with such regueriticale.	ulations as may be applicable, or
SIGNATURE OFFOWNER) Colore		SIGNATURE OF O	WHER	· ·
John C. Thorne	the total desired and the second and	NAME (Please print	or (ype)	The state of the s
Devol. Dir., Self-pollinated Crops 21 t	Tarch 2002	CAPACITY OR TITE		DATE
f-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a.	Reniaces STD-470 6	02-99) which is sheets	Ø /See rounted for inclinations and	the factor of the same of the

COKER 9184

Exhibit A: Origin and Breeding History of the Variety

COKER 9184 is a soft red winter wheat developed by Syngenta Seeds, Inc. at Bay, Arkansas. It was derived from a cross made in 1989, with a pedigree of COKER 9803/COKER 9835. Both parents are current varieties of Syngenta Seeds, Inc. The pedigree of COKER 9803 is McNair 1003/COKER 916. COKER 9835 has a pedigree of Ck 85-20/Pioneer variety '2550". The pedigree of Ck85-20 is COKER 68-19//COKER 61-19*3/IN4946A4-18-2-10-1/4/Blueboy/3/COKER 65-20*5/Wichita 7-Transfer//Tifton. A bulk breeding system was used to develop COKER 9184. An F4 derived head row was bulked as an F5; advancement was based on disease resistance and agronomic characteristics. Preliminary yield testing was initiated as an F6 in 1994-95 and the line was designated BL940812. Further yield testing and seed increase continued until release in 2001 as COKER 9184. The advancement was based on yield, disease and insect resistance and agronomic traits. See Table 1 for development procedure.

Table 1: Development of COKER 9184

Season	Generation	Activity
1989		Cross
1989-1990	F1	Seed increased in greenhouse as bulk.
1990-1991	F2	Bulk population grown in field, advancement based on leaf rust resistance and agronomic traits.
1991-1992	F3	Bulk population, selected 100 heads, harvest based on leaf rust resistance, height and maturity.
1992-1993	F4	Head row nursery, selection based on leaf rust resistance and agronomic traits.
1993-1994	F5	Observation nursery #5993, selection and advancement based on height, maturity and leaf rust resistance.
1994-1995	F6	Preliminary yield testing, assigned line number BL940812. Advancement based on yield, height and disease resistance.
1995-1996	F7	Yield testing in advanced company trials, small increase block at Bay, Arkansas, advancement based on yield, test weight and disease resistance.
1996-1997	F8	Yield testing in elite company trials, small increase with nested head rows for purity; advancement based on yield, leaf rust resistance, height and test weight.
1997-1998	F9	Yield testing in elite company trials, small increase with nested plots for purity; advancement based on yield, agronomic traits and disease resistance.
1998-1999	F10	Yield testing in elite company trials, large pre-breeder increase and tested in Uniform Southern Soft Red Winter Wheat Nursery. Advancement based on yield, test weight, agronomic traits, disease and insect resistance.
1999-2000	F11	Continued testing in elite company trials and limited state testing with breeder/foundation seed increase. Advancement based on yield, agronomic traits, disease and Hessian fly resistance.
2000-2001	F12	Variety released as COKER 9184 and registered seed sold to TGN Certified Seed Growers, fall 2001.

COKER 9184

Exhibit A: Origin and Breeding History of the Variety (cont.)

COKER 9184 is an F4 derived head row with yield testing initiated as an F6 in the 1994-1995 growing season. The variety has been tested and observed for 6 years with 5 years of seed increase. COKER 9184 is stable and uniform. Breeder seed was developed by bulking seed from head row generated increase strips that had been maintained separately for three (F8, F9 and F10) generations of increase for purity, uniformity, and stability comparisons. Variants may include one or more of the following in any combination; taller, awned, bronze, or later maturity type, which may be expressed up to 1%.

COKER 9184

Exhibit B: Statement of Distinctness

COKER 9184 most closely resembles COKER 9803, however COKER 9184 has a red coleoptile color where COKER 9803 has a white colored coleoptile. COKER 9184 is 6 days later than COKER 9803. COKER 9184 has a wanting glume shoulder and the beak apex shape is acuminate where COKER 9803 has an oblique glume shoulder and an acute apex shape. See Table 2.

Table 2: Distinguishing Characteristics

	1999* Heading Date	2000* Heading Date	Coleoptile Color	Glume Shoulder Shape	Glume Beak Shape of Apex
COKER 9184	4/21	4/19	Red	Wanting	Acuminate
COKER 9803	4/16	4/13	White	Oblique	Acute
# Entries	50	50		,	
# Reps	3	3			
Test Mean	4/19	4/16	**		
LSD (0.05)	2	2	-	<u> </u>	
CV %	1	_ 1	***************************************		

^{*}Heading date taken at Bay, Arkansas both seasons, date is from April 1. Trials were Randomized Complete Block design with an ANOVA run for statistical analysis.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Wheat)

OBJECTIVE DESCRIPTION OF VARIETY WHEAT (Triticum spp.)

NAME OF APPLICANT(S) Syngenta	Seeds, Inc.			FOR OFFICIAL USE ONLY	,
ADDRESS (Street and No. or	RD No., City, State, and Zip Code)			PVPO NUMBER 2 0 0	200135
P.O. Box Minneapol Attn: Jo				VARIETY NAME COKER 9184 TEMPORARY OR EXPERI	· .
may be used to determin Please answer all question	INSTRUCTIONS CAREFULLY DOX (e.g. 0 9 9 0 0 9) v s. Comparative data should be de e plant colors; designate system u ons for your variety; lack of respon	stermined from varieties entered	in the same trial. Royal	BL940812	the haves below
1. KIND:	1=Common	2=Darum	3=Club	4=Othe	er (SPECIFY) :
2. VERNALIZATI	ION:		· · · · · · · · · · · · · · · · · · ·		
2	1=Spring	2=Winter	3=Other (Si	PECIFY) :	
3. COLEOPTILE	ANTHOCYANIN:				
2	1=Absent	2=Present			. 1
. JUVENILE PLA	NT GROWTH:				
2	1=Prostrate	2=Semi-erect	3=Erect		
. PLANT COLOR	(boot stage):	Munsell Color	Chart 7.5GY5/6		
2	1 = Yellow-Green	2 = Green	3 = Blue-Gree	en	
. FLAG LEAF (bo	ot stage):				
1	1 = Erect	2 = Recurved	2	1 = Not Twisted	2 = Twisted
EAR EMERGEN	CE:				
	Number of Days Earli	er Than			*
	Non-house Day 1	Than COKER 9		· · · · · · · · · · · · · · · · · · ·	

200200135

8. ANTHER COLOR:					
	1 = Yellow	2 = Purple			
9. PLANT HEIGHT (fre	om soil to top of head, e	xcluding awne).			
·	m Taller Than				_
0 8	m Shorter ThanCO	KER 9663			*
10. STEM:			* Relative to a PVP	O-Approved Commercial Variety	Grown in the Same Tri
A. ANTHOCYAN	VIN				
1 I= Absent	2=Present		1 1= Hollow	SPECIFY NUMBER) 2=Semi-solid	3=Solid
B. WAXY BLOOP	M		E. PEDUNCLE		
2 1=Absent	2=Present		2 1=Absent	2=Present	
C. HAIRINESS (I	ast internode of rachis)		13 cm Length		
1=Absent	2=Present	•	777 777		
11. HEAD (at Maturity):					
A. DENSITY			C. CURVATURE	•	
3 1=Lax 3= Dense	2=Middense		3 1 = Erect	2 = Inclined	3 = Recurved
B. SHAPE		D	. AWNEDNESS		
1 = Tapering 3 = Clavate	2= Strap 4 = Other (SPECIF	Y):	$ \begin{array}{c} 1 = \text{Awnless} \\ 3 = \text{Awnletted} \end{array} $	2 = Apically Awnletted 4 = Awned	
2. GLUMES (at Maturity):					
A. COLOR $2 = 1 = $ White	MCC 5Y 8/4 2 = Tan	c.	BEAK	4	
3 = Other (SP)	ECIFY) :		3 1 = Ob 3 = Acu	ituse 2 = Acute iminate	
B. SHOULDER		D.	LENGTH		
1 = Wanting 3 = Rounded 5 = Elevated	2 = Oblique 4 = Square 6 = Apículate			ort 2 = Medium 7mm) (ca. 8mm) ng (ca. 9mm)	

T-470-6 (2-99) designed by the Plant Variety Protection Office with WordPorfact 6 Oc

12. GLUMES (at Maturity) Continued:	型004
E. WIDTH	200200135
1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5mm) 3 = Wide (ca. 4mm)	
13. SEED:	
A. SHAPE	C. BRUSH
1 = Ovate $2 = Oval$ $3 = Elliptical$	2 1=Short 2=Medium 3=Long 2 1 = Not Collared 2 = Collared
	. CREASE
2 1=Rounded 2=Angular	1 = Width 60% or less of Kernel 2 = Width 80% or less of Kernel 3 = Width Nearly as Wide as Kernel
E. Color	1 = Depth 20% or less of Kernel 2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel
G.	PHENOL REACTION (see instructions):
1=White 2= Amber 3= Red 4= OTHER (Specify) Munsell Color Chart 7.5 YR 6/8	1 = Ivory 2 = Fawn 3 = Light Brown 4 = Dark Brown 5 = Black
F. TEXTURE 2 1=Hard 2=Soft	40% dark 60% Light
4. DISEASE: (0=Not Tested; 1=Susceptible; 2=Resistant;	3=Intermediate; 4=Tolerant)
PLEASE INDICATE THE SPECIFIC R	•
2 Stem Rust Puccinia graminis f. sp. tritici) 2	Leaf Rust (Puccinia recondita f. sp. tritici) Prevalent field races in Arkansas and
Stripe Rust (Puccinia striiformis) Field races in Arkansas 2000.	Georgia 1999 & 2000. (Continued Below) Loose Smut (Ustilago tritici)
Tan Spot (Pyrenophora tritici-repentis)	Flag Smut (Urocystis agropyri)
O Halo Spot (Selenophoma donacis)	Common Bunt (Tilletia tritici or T. laevis)
O Septoria nodorum (Glume Blotch)	Dwarf Bunt (Tilletia controversa)
O Septoria avenae (Speckled Leaf Disease)	Karnal Bunt (Tilletia indica)
Septoria tritici (Speckled Leaf Blotch) Field Strains in Arkansas in 1998 & Scab (Fusarium spp.) 0	Powdery Mildew (Erysiphe graminis f. sp. tritici) Prevalent field races in Georgia, North Carolina and Virginia in 1999 &2000. "Snow Molds"

Other (SPECIFY)

Other (SPECIFY)

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS

Greenbug (Schizaphis graminum)

Aphids

Leaf Rust resistant to isolates MDGL, PBRQ, BLBB, MCRQ, and CDBB.

Table 3: COKER 9184

Exhibit D: Additional Description

Baking and Milling Quality Syngenta Seeds, Inc. 2002

COKER 9184	Standard (COKER 9543)	1999 Commercial Elite	COKER 9184	Standard (Pioneer 2552)	1998 Commercial Elite	CORER 9184	Standard (Hickory)	1997 Commercial Elite
103.6	100.0		80.2	100.0		105.6	100	Milling
97.4	100.0		74.1	100.0		102.8	100.0	Baking
97.4	100.0		74.1	100.0		102.8	100.0	Combinec
61.6	61.4		61.6	58.8		61.4	61.1	Micro Combined T. Weight
64.3	58.2		58.2	61.8		65.5	59.8	Soft Equival.
72	72		68.8	73.8		71.8	71.3	Flour Yield
8.27	8.39		10.55	9.56		6.58	7.45	Flour Protein
56.5	53.6		56.1	54		57.4	55.6	Micro AWRC
18.4	18.27		17.12	17.93		18.81	18.13	Cookie Dia.

Commercial Elite is an in house Syngenta Seeds yield test. All quality evaluations have been conducted by the USDA Soft Wheat Quality Lab, Wooster, OH. COKER 9184 has been rated as satisfactory. Scores are adjusted to a standard known to exhibit excellent quality.

Table 4: COKER 9184

Exhibit D: Additional Description

Yield and Agronomic Data:

	Yield (bu/ac)				Head Date (4/1) (Bay, AR)		Height in.	Lodging (1-9)	Growth Habit
	1 Year	2 Year	3 Year	Weight 1 Year	1999	2000	1 Year	3 Year	3 Year
			,						
COKER 9184	70	69	67	59.4	21	19	36	2	3
COKER 9663	77	75	73	58.5	14	13	39	3	3
COKER 9803	70	69	67	58.2	16	13	35	3	3
COKER 9704	70	70	67	58.3	16	13	35	3	3
COKER 9543	69	68	66	56.8	16	16	34	3	3
COKER 9835	69	68	64	55.5	17	11	33	2	4
Pioneer 2684	74	74	70	59.7	12	11	35	2	3
Jackson	71	68	67	58.1	23	18	36	3	3
Patterson	68	65	64	58.2	22	17	39	2	2
Test Mean	70	68	66	57.9	19	16	36	3	3
Trials With Data	16	31	45	6	1	1	14	32	4
LSD (0.05)	5.9	4.2	3.3	1.2	2	2	3	0.4	0.7
CV %	10.5	10.4	10.6	1	1	1	17	32.9	14.7

Yield:

1 Year = 2000 yield data from AR, MO, TN, KY,IL, PA, VA, NC, SC, GA, MS, TX Syngenta Seeds locations

2 Year = 2000 locations plus 1999 locations in same states

3 Year = 2000 + 1999 Locations plus 1998 locations in same states

Test Weight (lb/bu): Average test weight taken from Union City, TN; Dewitt, AR; Whitehall, AR; Plymouth, NC; Warsaw, VA; and Plains, GA; 2000

Head Date: Average date after April 1 at Bay, AR 1999 and 2000

Height: Averaged over 14 locations in 2000. Same Locations as above.

Lodging: Averaged over 3 years 1998, 1999, 2000 locations. 1 = none.

Growth Habit: Bay, AR 3 Year average 1 = Prostrate 5 = Erect

Table 5: COKER 9184

Exhibit D: Additional Description

Leaf Rust

Ecai Itast							
	1999			2000			
	Bay, AR	Plains, GA	Plymouth, No	C Lewisville, AF	Plains, GA	Plymouth, N	C Warsaw, \
COKER 9184	1	2	4	1 2	1	3	2
OOKEK 0104	<u> </u>		-	- <u>!</u> -			
COKER 9663	1	2	2	2	7	1	2
COKER 9803	2	6	6	4	6	6	4
COKER 9704	3	9	5	4	4	5	4
COKER 9543	3	9	7	4	6	4	4
COKER 9835	2	7	9	3	9	4	4
Pioneer 2684	4	4	6	<u>I</u> I 6	6	7	6
Jackson	5	9	8	7	7	8	7
Patterson	4	7	8	6	7	6	5
Гest Mean	2	5	5	<u> </u>	4	4	4
Reps With Data	3	1	2	3	2	2	3
SD (0.05)	1.1		2	1.5	2.9	1.6	1.5
CV %	29.2		20.3	29.6	33.7	20.8	17.5

Table 6: COKER 9184

Exhibit D: Additional Description

Powdery Mildew

Powdery wildew	1999							
		Kinston, NC	Warsaw, VA	2000 Henderson, K\	/ Plains, GA	Hartsville, SC	Kinston, NC	Warsaw, V
COKER 9184	1	4	2] 2	1.	3	4	6
OOKEKOIOT		<u> </u>		<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	3	4	0
COKER 9663	8	6	2	5	5	2	4	6
COKER 9803	8	5	3	3	1	2	3	4
COKER 9704	1	5	3	3	2	3	3	5
COKER 9543	8	5	2	5	1	2	3	5
COKER 9835	3	4	2	3	2	3	3	7
Pioneer 2684	1	4	2	<u> </u>	1	1	1	5
Jackson	8	7	2	3	1	2	5	4
Patterson	3	5	3	5	2	4	4	7
Test Mean	6	5	3	1 4	3	3	3	6
Reps				3	1	3	2	3
_SD (0.05)		1.3	1.3	2.3		1	1.2	1.6
CV %		13.1	33.2	37.6		25.1	19.5	28.7

Scale (1 - 9) 1 = none

Table 7: COKER 9184

Exhibit D: Additional Description

Other Diseases

•	Septoria t	ritici			WSSMV		
	1998	НЫЛЫ поположительной поменты может общений общений в должений в должений в должений в должений в должений в до	1999	INTERPRETALINER HERENTALINER HERENTALIARIA (H. 1884).	1997	1999	
	Bay, AR	Whitehall, AR	Bay, AR	Whitehall, AR	Bay, AR	Bay, AR	
COKER 9184	5	7	5	6	l 5	5	
COKER 9663	2	4	3	2] 3	5	
COKER 9803	4	5	4	7	i 5 i 6	5	
COKER 9704	4	5	4	5	6	6	
COKER 9543	3	6	4	5	2	2	
COKER 9835	3	6	6	6	4	5	
Pioneer 2684	5	6	-6	6	3	2	
Jackson	4	6	4	5	6	7	
Patterson	3	6	3	5	-	4	
Test Mean	3	5	4	4	4	4	
LSD (0.05)	1.4	1.4	1	1.5	2.2	0.9	
CV %	25.1	16.3	15.9	20.9	32.6	13	

Scale (1 - 9) 1 = none

WSSMV = Wheat Spindle Streak Mosaic Virus identified by Dr. Gene Milus University of Arkansas pathologist.

Table 8: COKER 9184

Exhibit D: Additional Description

Hessian Fly:

	Plains, GA	ICPPCRU Plains, GA I1999								i 2000		
•	1999	2000*	GP GP	В	С	D	Ε	L	E	L	0	
COKER 9184	3	1	10/5	0/19	12/6	0/12	0/14	0/18	0/16	0/14	18/0	
COKER 9663	6	6	10/5	5/12	10/8	18/1	7/6	0/11	2/10	0/12	0/18	
COKER 9803	8	9	0/12	0/13	0/18	0/16	0/16	0/16	0/11	0/14		
COKER 9704	8	6	0/18	0/12	0/16	0/10	0/14	0/15	0/15	0/12		
COKER 9543	6	9	10/1	15/1	14/1	15/1	12/1	0/12	17/0	11/3	0/18	
COKER 9835	1	1	10/1	0/14	3/9	0/10	10/2	0/15	15/1	0/11	18/0	
Pioneer 2684	1	1						0/17	<u> </u>			
Jackson	8	9						0/17				
Patterson	3	1	<u> </u>					0/17				
Test Mean	5	4										
LSD (0.05)	4.2											
CV %	45.1											

* 1 rep

Plains, GA 1= none

CPPCRU

R/S Resistant vs Susceptible.

Screening done by USDA-ARS, Crop Production and Pest Control Research Unit, West Lafayette, IN,

Dr. Roger Ratcliffe

U.S. DEPARTMENT OF AGRICULTURE	The following statements are	FORM APPROVED - OMB NO. 0581-00
AGRICULTURAL MARKETING SERVICE	The following statements are made in accordance with the Privacy Act 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.	
EXHIBIT E	Application is required in order	
STATEMENT OF THE BASIS OF OWNERSHIP	certificate is to be issued (7 U.S. until certificate is issued (7 U.S.C.	to determine if a plant valiety protecti C. 2421). Information is held confident 2426).
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME
Syngenta Seeds, Inc.	OR EXPERIMENTAL NUMBER	HAME
Juganita Beeds, The.	BL940812	COKER 9184
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		
P.O. Box 959	5. TELEPHONE (include area code)	6. FAX (include area code)
Minneapolis, MN 55440	763–593–7333	763-542-0194
Attn: John Thorne	7. PVPO NUMBER 20	<u>L</u>
		0200135
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	e block. If no, please explain.	
		X YES NO
	·	
Is the applicant (loci id.)		
Is the applicant (individual or company) a U.S. national or U.S. based/compar If no, give name of country	ny?	
D. Is the applicant the original owner? X YES NO If no, please at		X YES NO
a. If original rights to variety were owned by individual(s), is (are) YES NO If no, give name of country b. If original rights to variety were owned by a company, is the original		
YES NO If no, give name of country		
. Additional explanation on ownership (If needed, use reverse for extra space):		
•		
	-	·
ACE MOTO		
EASE NOTE:		
variety protection can be afforded only to owners (not licensees) who meet on		•
the rights to the variety are owned by the original breeder, that person must b f a country which affords similar protection to nationals of the U.S. for the sam		V member country, or national
the rights to the variety are owned by the company which employed the originationals of a UPOV member country, or owned by nationals of a country which enus and species.	- series and species.	
•		
the applicant is an owner who is not the original owner, both the original owner	r and the applicant must meet one o	f the above criteria.
riginal breeder/owner may be the individual or company who directed final breed	ding. See Section 41(a)(2) of the Pi	not Vasiota Bassasia - A.a.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering

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To file a complete write the Secretary of Agriculture U.S. Department of U.S. Department of Agriculture U.S. Department of U.S. Departm

and maintaining the data needed, and completing and reviewing the collection of information.